

PN-K321 Recommended Video Cards



About this document

About this document

• Please follow all manufacture's instructions when installing and configuring a particular video card.

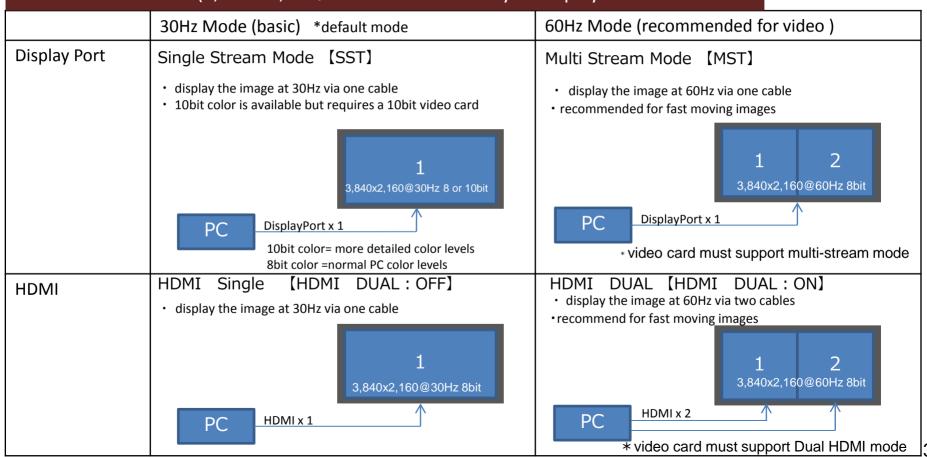
[Attention]

- •Sharp can not guarantee that the recommended VideoCards described are compatible with the selected PC.
- •This document is provided to guide the customer with the selection of compatible VideoCards for use with the Sharp PN-K321 Ultra-HD display.

Please don't pass this information to other manufacturers of similar products.

PN-K321 Connections

PN-K321 Ultra-HD(3,840 \times 2,160) - There are two way to display this resolution.



DisplayPort Mode

Single Stream (SST) Mode or MultiStream (MST) mode can be selected

- ①Single Stream Mode (default) -resolutions up to 3,840×2,160 supported @30Hz
- ②Multi Stream Mode resolutions up to 3,840×2,160 supported @60Hz *video card must support multi-stream mode

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<How to set the PN-K321 for MultiStream Mode >
OSD MENU > DisplayPort Stream > [MST]
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PN-K321 Supported PC resolutions

■Compatible signal timing (PC)

Screen resolution		Vsync	DisplayPort	HDMI1 or HDMI2	HDMI DUAL"	
VESA	640×480	60Hz	Yes	Yes	-	
		72Hz	Yes	Yes	-	
		75Hz	Yes	Yes	-	
	800×600	56Hz	Yes	Yes	-	
		60Hz	Yes	Yes	-	
		72Hz	Yes	Yes	-	
		75Hz	Yes	Yes	-	
	848×480	60Hz	Yes	Yes	-	
	1024×768	60Hz	Yes	Yes	-	
		70Hz	Yes	Yes	-	
		75Hz	Yes	Yes	-	
	1152×864	75Hz	Yes	Yes	-	
	1280×768	60Hz	Yes	Yes	-	
		75Hz	Yes	Yes	-	
	1280×800	60Hz	Yes	Yes	-	
	1280×960	60Hz	Yes	Yes	-	
	1280×1024	60Hz	Yes	Yes	-	
		75Hz	Yes	Yes	-	
	1360×768	60Hz	Yes	Yes	-	
	1400×1050	60Hz	Yes	Yes	-	
	1600×1200	60Hz	Yes	Yes	-	
	1680×1050	60Hz	Yes	Yes	-	
	1920×1200	60Hz	Yes			
	3840×2160	24Hz	Yes	Yes	Yes*4	
		25Hz	Yes	Yes	-	
	. –	30Hz	Yes	Yes	Yes'4	
		50Hz	Yes ³⁸	-	Yes*4	
	L	60Hz	Yes*3*6		Yes*4	
	4096×2160°2	24Hz		Yes	Yes'5	
Wide	1280×720	60Hz	Yes	Yes	-	
	1920×1080	60Hz	Yes	Yes	-	
US TEXT	720×400	70Hz	Yes	Yes	-	

Recommended resolutions

^{*1} A single screen is created from simultaneous input of two systems using HDMI1 and HDMI2.

^{*2} Displays a reduced image, except in Dot by Dot. In Dot by Dot, the image will be cut down to panel size then displayed.

^{*3} Displays using multi-streaming.

^{*4} The two HDMI input terminals both have 1920 x 2160 signals.

^{*5} The two HDMI input terminals both have 2048 x 2160 signals.

^{*6} The signals for the left and right screens are both 1920 x 2160 signals.

^{*} All are compliant only with non-interlaced.

Depending on the connected PC, images may not be displayed properly even if the compatible signal described above is input.



3,840×2,160 Compatible Video Cards

Test configuration

PC-1: HP Z400 Windows 7 Professional SP1 32bit (driver NVIDIA: 310.90, AMD: 9.003.3)

PC-2: HP Z820 Windows 7 Professional SP1 64bit (driver NVIDIA: 307.74, AMD: 8.982.8.3)

PC-3: HP Z420 Windows 7 Professional SP1 64bit (driver NVIDIA: 307.74, AMD: 8.982.8.3)

PC-4: HP Z800 Windows 7 Professional SP1 64bit

* currently testing the combination between FUJITSU Celsius PC and FirePro video card

		3,840x2,160						
		60Hz / 8bit Color			30Hz / 10bit Color		30Hz / 8bit Color	
		DisplayPort	HDMI dual	HDMI 1 or 2	DisplayPort	HDMI 1 or 2	DisplayPort	HDMI 1or 2
NVIDIA	Quadro FX1800	×	×	/	0	×	0	×
	Quadro 2000	×	×		0	×	0	×
	Quadro 4000	×	×		0	×	0	×
	Quadro K5000	× ※2	○ ※ 4		0	×	0	◎※4
AMD	FirePro W600	△※ 3	×		○※ 1	×	0	×
	FirePro W5000	△※ 3	×		○※ 1	×	0	×
	FirePro W7000	△※ 3	×		○※1	×	0	×
	FirePro W8000	△※ 3	×		○※1	×	0	×
	FirePro W9000	△※ 3	×	/	○※1	×	0	×

X1: Windows AERO is not activated, but ok

¾4: using DVI-HDMI adapter

^{※2:} Does not power-on therefore this combination is not recommended

^{*3:} Integrated Windows desktop is disabled when the cable is removed, monitor is power cycled, or recovery from stand by mode. Integrated Windows desktop must be re-enabled